The IEEE North Jersey Section Computer Society Chapter
and the
Gildart Haase School of Computer Sciences and Engineering at FDU
sponsor a talk on
Transforming ICT Networks for a Sustainable Future
by
Dr. Thierry E. Klein
Alcatel-Lucent – Bell Labs

Abstract
With the continued exponential growth of applications, services, devices and machines all being connected to the network, the total Internet traffic in the next decade is expected to grow to a level that is 30 to 100 times that of current levels. One of the challenges for next-generation networks is the ability to support the predicted traffic in a sustainable and economically viable way. In addition to the resulting increased power consumption, the rising energy costs, the environmental impact of networks, and more socially conscious consumers and service providers demand that our future communication and data networks are greener and more sustainable. During this presentation, Dr. Klein will review some of the current trends in communication and data networks and discuss the latest research to improve energy efficiency and reduce power consumption in wireless, wireline access, packet data and optical networks. He will also provide an overview and a status update of the GreenTouch consortium, an industry-wide initiative founded under the leadership of Bell Labs with the mission to deliver architectures, solutions and specifications, and to demonstrate key technologies, to improve the network energy efficiency by a factor 1000 compared to 2010 levels.

Biography: Dr. Thierry Klein is currently the Head of Green Research at Bell Labs, Alcatel-Lucent leading a large team of researchers, engineers and scientists across multiple departments, research domains and locations with the mission to conduct research towards the design, development and use of sustainable future communications and data networks. He also serves as the Chairman of the Technical Committee of GreenTouch, a global consortium dedicated to improve energy efficiency in networks by a factor 1000x compared to 2010 levels. He joined Bell Labs Research in Murray Hill, New Jersey in 2001. In 2007, Thierry founded a start-up company focused on wireless communications for emergency response situations within Alcatel-Lucent Ventures. Thierry served as the CTO of the Venture until his return to Bell Labs Research in February 2010, when he became the Director of the End to End Wireless Networking Research Department. He earned an MS in Mechanical Engineering and an MS in Electrical Engineering from the Universite de Nantes and the Ecole Centrale de Nantes in Nantes, France. Thierry received a PhD in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology, USA. He is an author on over 35 peer-reviewed conference and journal publications and an inventor on 36 patent applications. He is a member of the Alcatel-Lucent Technical Academy and the recipient of a Bell Labs’s President Award and two Bell Labs Teamwork Awards. In 2010, he was voted “Technologist of the Year” at the Total Telecom World Vendor Awards.

All are welcome!

You do not have to be a member of the IEEE to attend. Bring your friends and network during the free pizza starting at 11:30 A.M.

Time: 12:00PM, Thursday, April 11th, 2013, pre-meeting pizza starting at 11:30 AM.

Place: Muscarelle Center, Auditorium 105 Fairleigh Dickinson University, 1000 River Rd, Teaneck, NJ 07666.
http://www.fdu.edu/visitorcenter/directions/teaneck_map.html

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